



ESR-1221 EXT

Wireless 11G Mini Router

2.4 GHz	802.11 b/g	54 Mbps	AP Router
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PRODUCT DESCRIPTION



ESR-1221 EXT 11G Mini Router supports home network with superior throughput and performance and unparalleled wireless range. It also comes with detachable SMA antenna which can be upgraded to higher gain to expand the signal coverage. ESR-1221 EXT comes with built-in 4-port full-duplex 10/100 Fast Switch to connect your wired-Ethernet devices together. The Router function ties it all together and allows user share high-speed cable or DSL Internet connection.

PACKAGE CONTENT

- 1* 802.11g SOHO Router (ESR-1221 EXT)
- 1 * 2dbi detachable antenna
- 1* 12V/1A Power Adapter
- 1* QIG
- 1*CD (User's Manual)

Technical Specifications

HARDWARE SPECIFICATIONS

PCB dimension	100mm * 90mm
Physical Interface	● WAN: One 10/100 Fast Ethernet RJ-45 ● LAN: Four 10/100 Fast Ethernet RJ-45 ● Reset Button ● Power Jack ● 1 SMA detachable Antenna

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* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice.

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LEDs Status	● Power/ Status ● WAN (Internet connection) ● LAN1~LAN4 (10/100Mbps) ● WLAN (Wireless Connection)
Power Requirements	● Power Supply: 200 to 240 VDC $\pm$ 10% (ETSI) 100 to 120 VDC $\pm$ 10% (FCC) ● Device: 12V/1A

➤ Front Panel (LED status)

WAN	1 (Link-> blue on, traffic->blink)
LAN	4 (Link-> blue on, traffic->blink)
WLAN	1 (Link-> blue on, traffic->blink)
Power/Status	1 (On-> red Test/reset default->blink)

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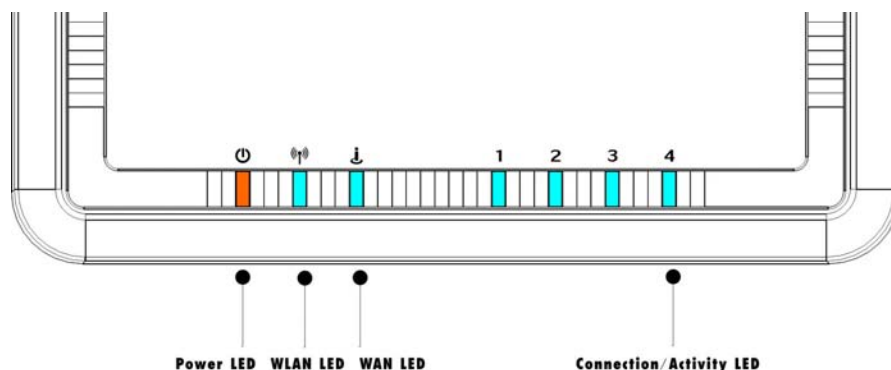
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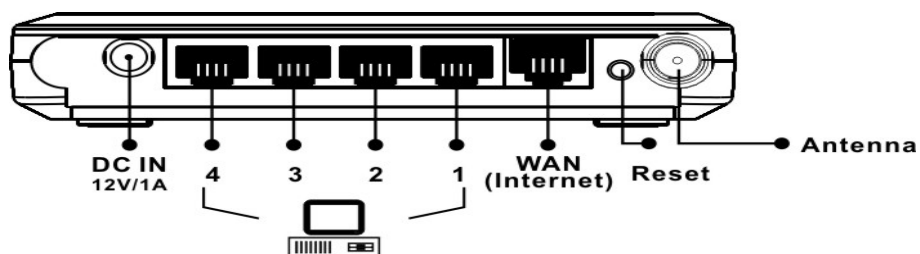
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➤ Rear Panel (Interface)



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RF SPECIFICATION

Frequency Band	2.400 ~ 2.484 GHz
Modulation Technology	● OFDM: BPSK, QPSK, 16-QAM, 64-QAM ● DBPSK, DQPSK, CCK
Operating Channels	11 for North America and 13 for Europe
Receive Sensitivity (Typical)	-85dBm @ 6Mbps -68dBm @ 54Mbps
Available transmit power	2.412~2.472G(IEEE802.11g) 17 dBm @6 ~ 54Mbps 2.412~2.472G(IEEE802.11b) 23 dBm. @1~11Mbps
Antenna *1	Peak Gain = 2 dBi

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SOFTWARE FEATURES

Features	Benefits
API/Router mode	
MAC address filtering	Ensures secure network connection
User isolation support	Protect the private network between client users.
Hide SSID	Avoids unallowable users sharing bandwidth, increases efficiency of the network
WDS (Wireless Distributed System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
UPnP(Universal Plug and Play)	Friendly to special application e.g. MSN or Skype
Port forwarding	Set up application server (FTP, Web, Email, ...) on LAN
Access control	WLAN-to-WAN access control (allow/disallow), prevent users from access unwanted content
Firewall	Prevent malicious access from Internet
DoS (Denial of Service) protection	Prevent from well-known DoS attack
Built-in 4-port Switch automatically detects cable type	Easy local connectivity
Port forwarding	Set up application server (FTP, Web, Email, ...) on LAN
IAPP	Provide stable communication for roaming client

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QoS (WMM)	Enhance user performance and density
Generic features	
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices with legacy protection
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
Remain personal setting during firmware upgrade	Remain latest setting after firmware upgrade
Web-based configuration	Simple and intuitive network management
Firmware upgrade via the Web-based configuration screen	Allow easy upgrade/restore/dump system configuration via web interface
System log	Logging critical event according to network manager's criteria
SNMP Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
DHCP Client/ Server	Simplifies network administration
Universal Repeater	The easiest way to extend your wireless network's coverage
Keep personal setting	Keep the latest setting when firmware upgrade

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ENVIRONMENT & PHYSICAL

Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15% ~ 95% typical

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